

Supporting Information for:

A new stable $C_{NHC}^{\wedge}CH^{\wedge}C_{NHC}$ *N*-heterocyclic dicarbene ligand: its mono- and dinuclear Ir(I) and Ir(I)-Rh(I) complexes

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S1. Formula of ligands and complexes described in this paper.

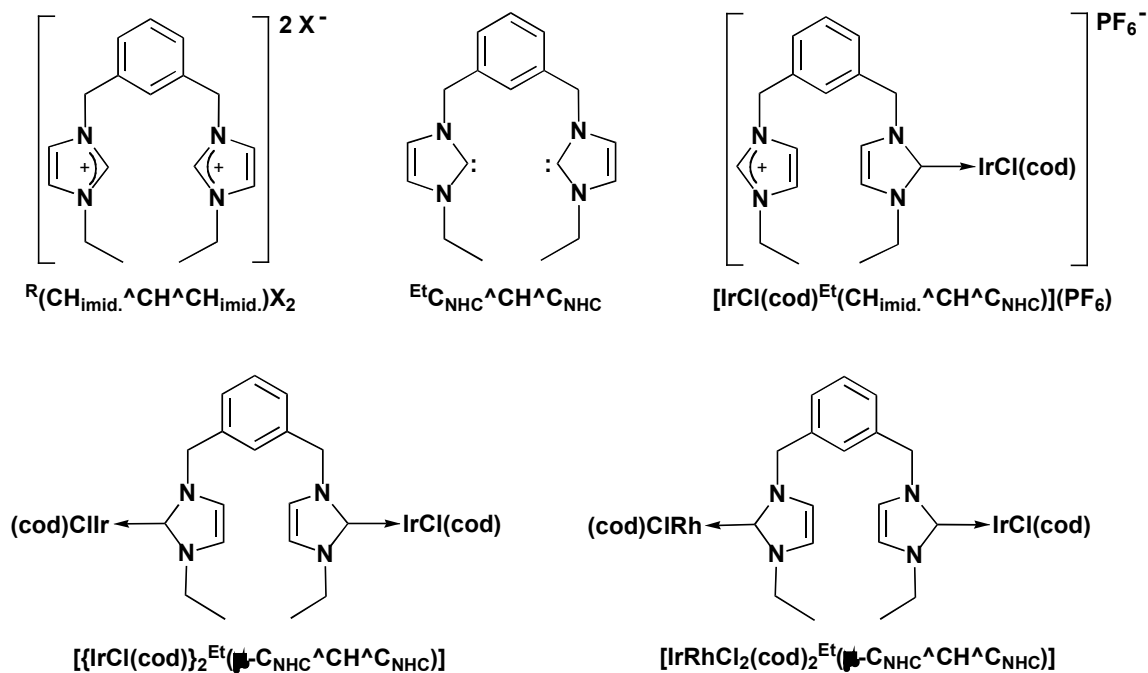
S2. NMR spectra of compounds **1-11**.

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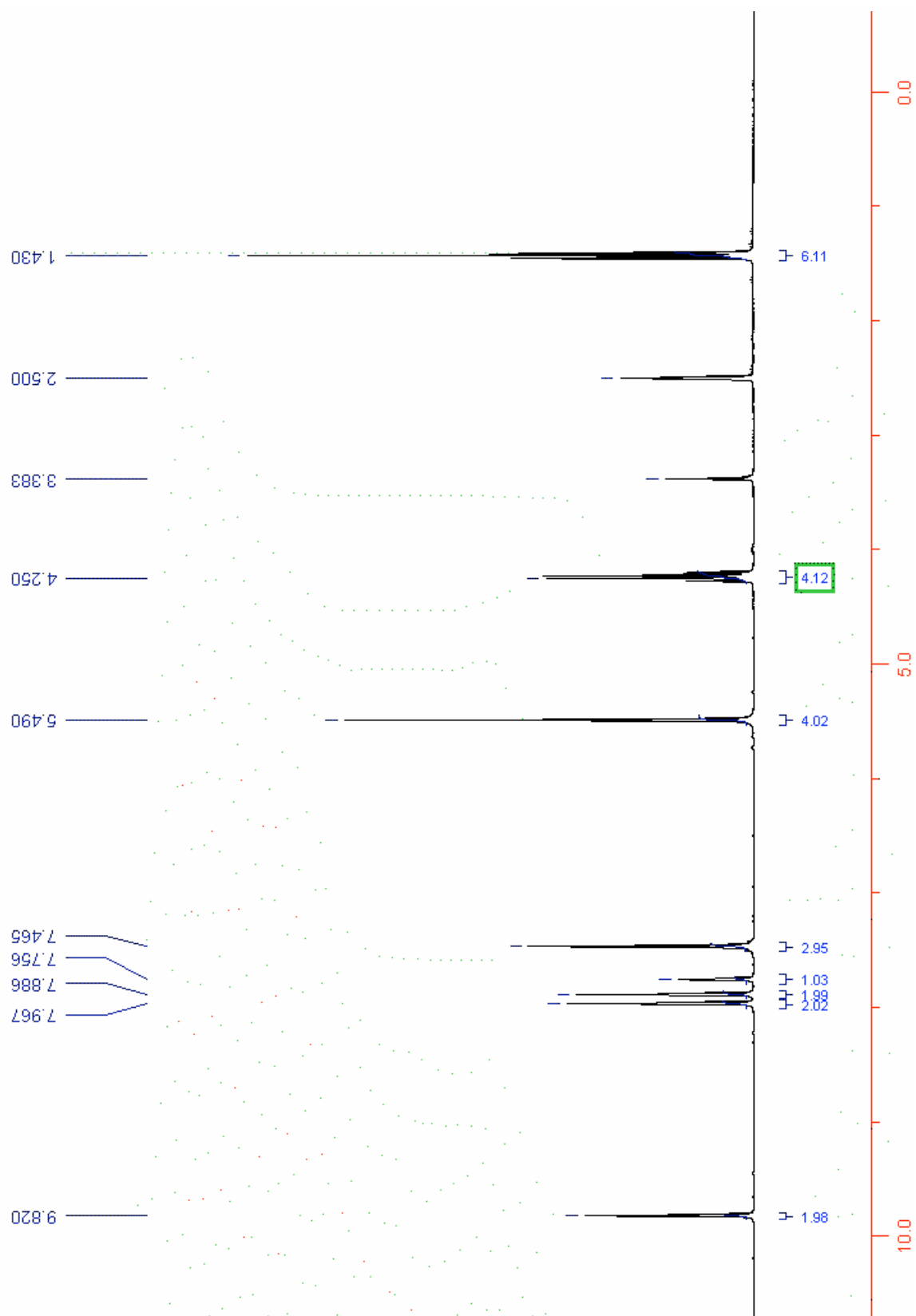
^c *IFP-Lyon, Rond Point de l'Echangeur de Solaize, BP3, 69360 Solaize.*

S1. Formula of ligands and complexes

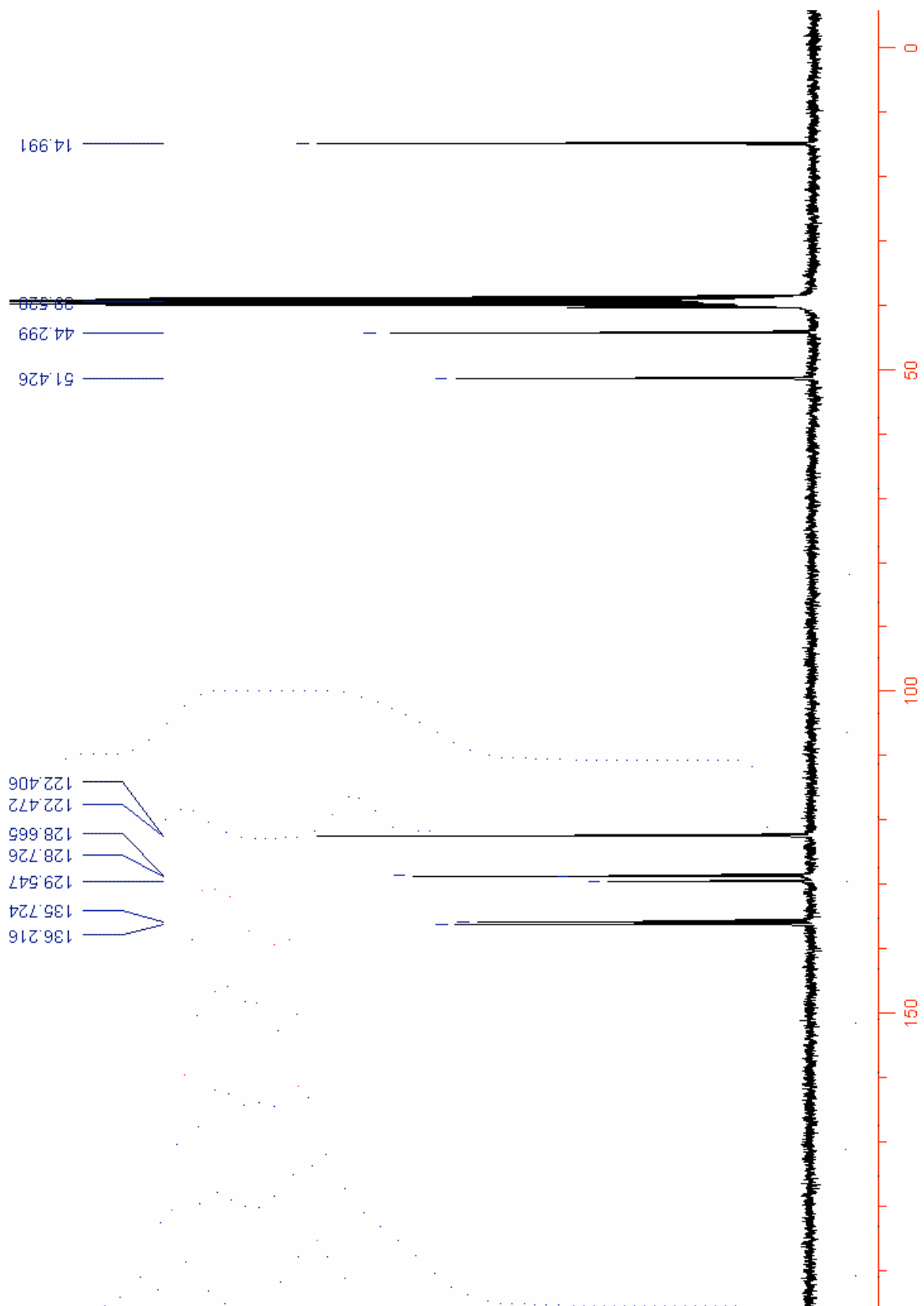


S2. NMR spectra of compounds 1-11.

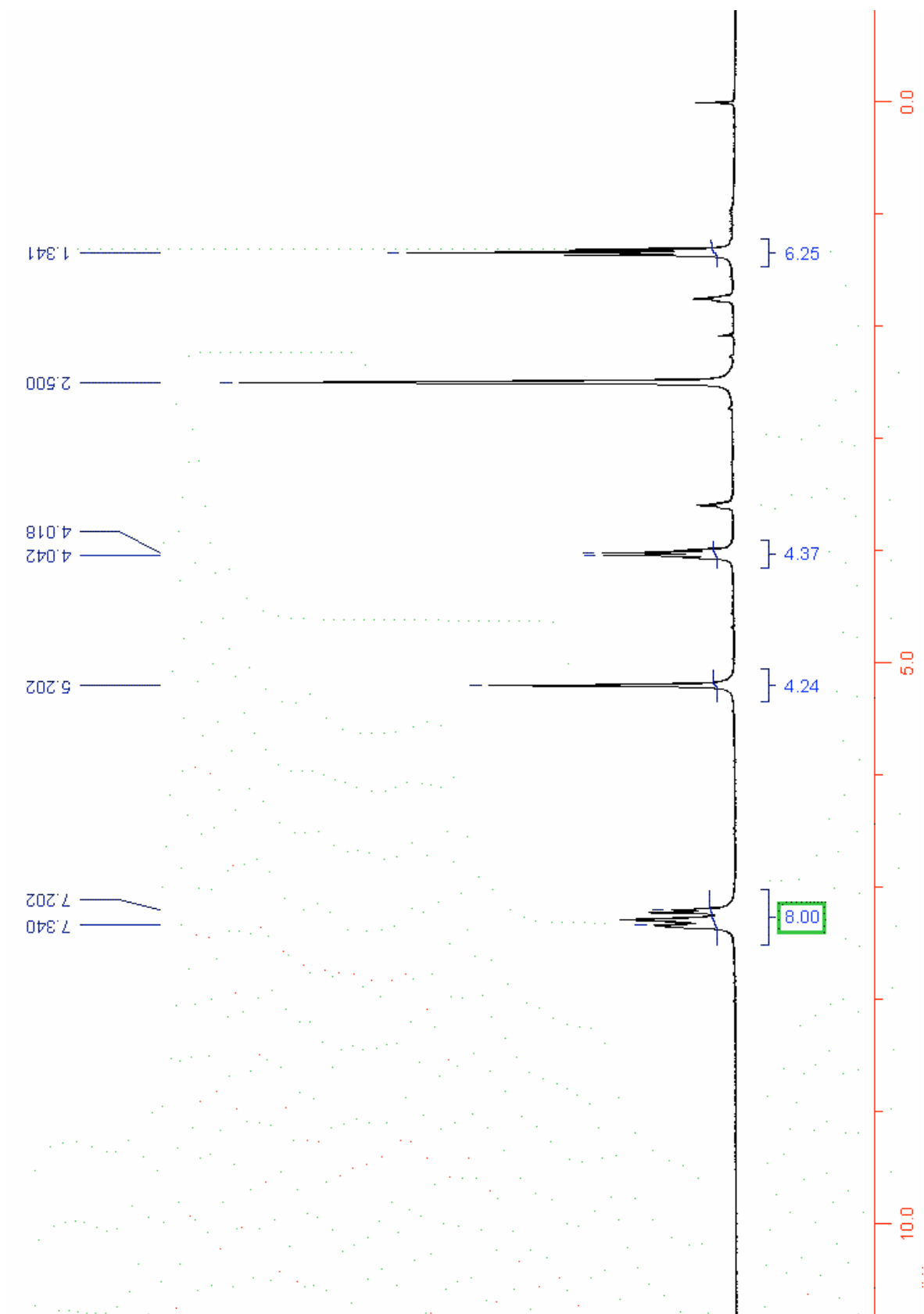
compound **1** (^1H , DMSO)



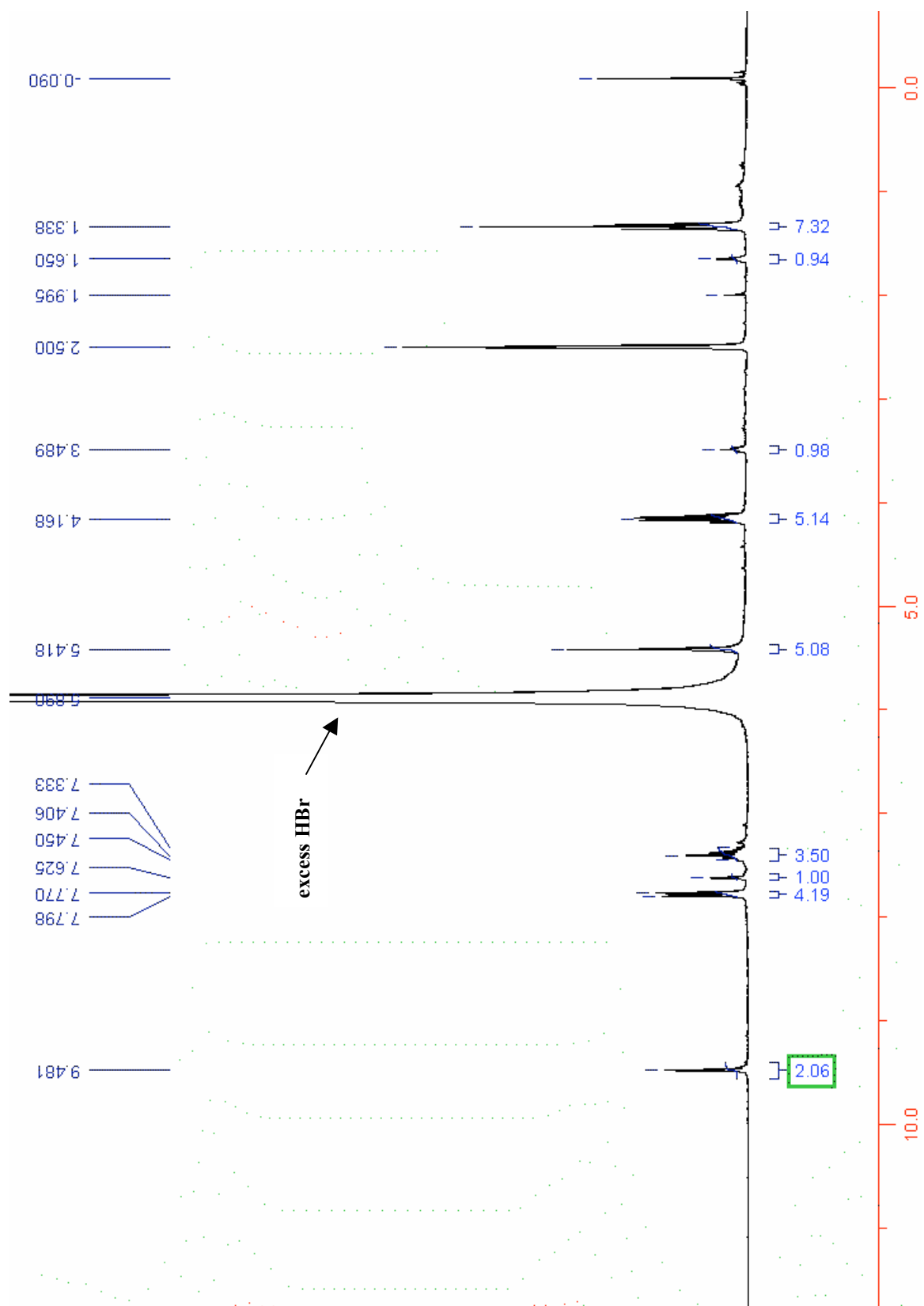
compound 1 (^{13}C , DMSO)



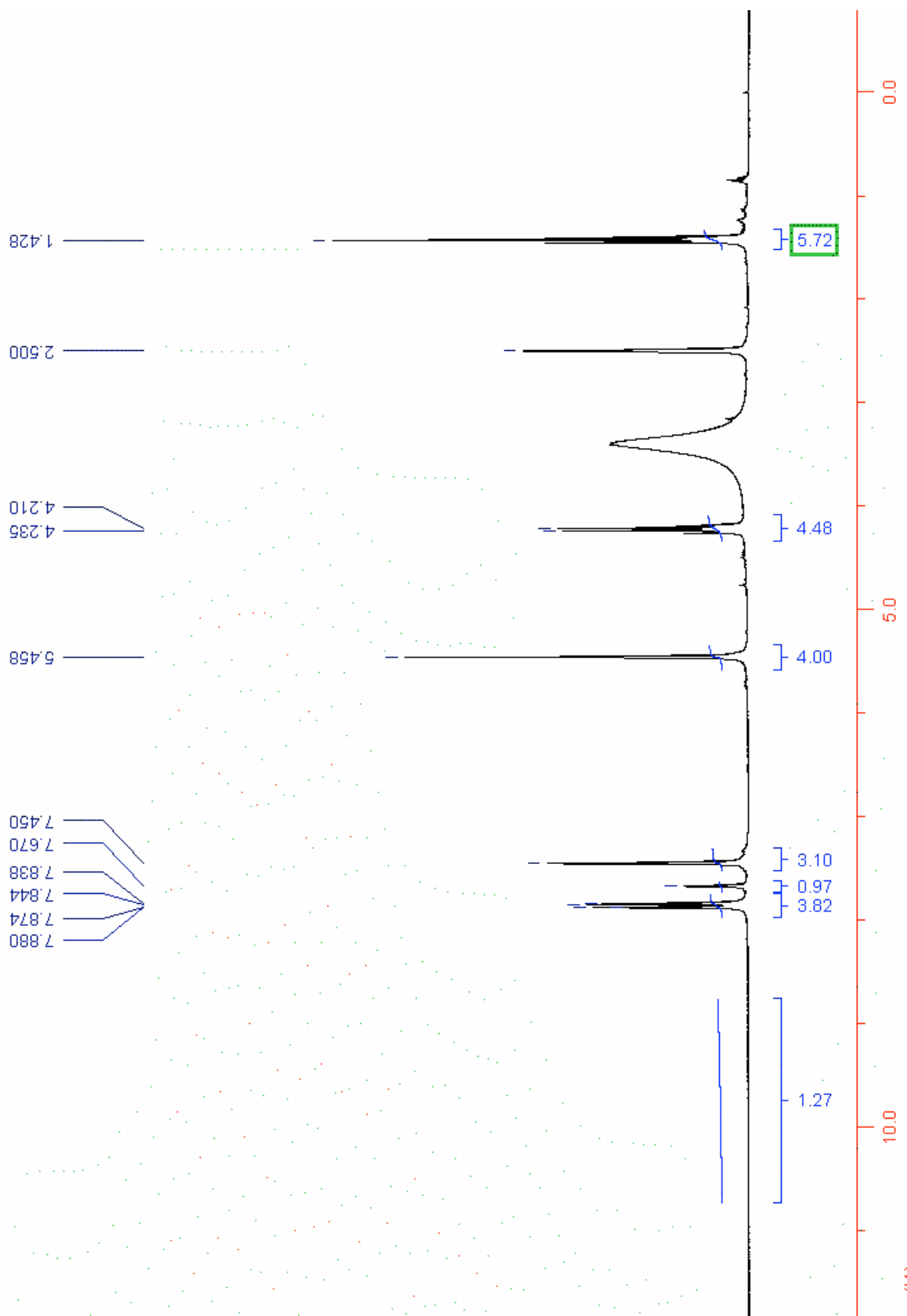
compound 2 (^1H , DMSO)



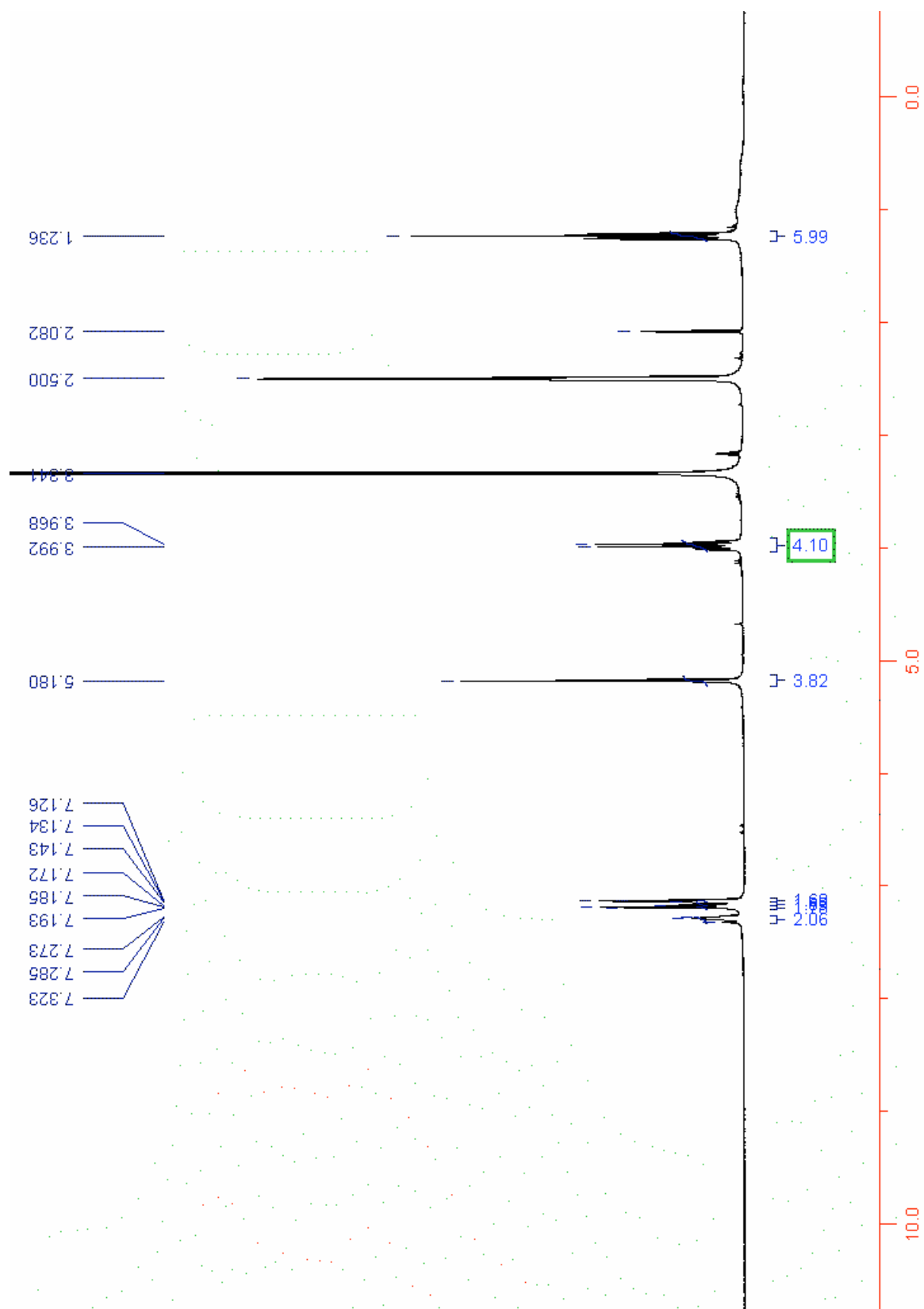
compound 3 (^1H , DMSO)



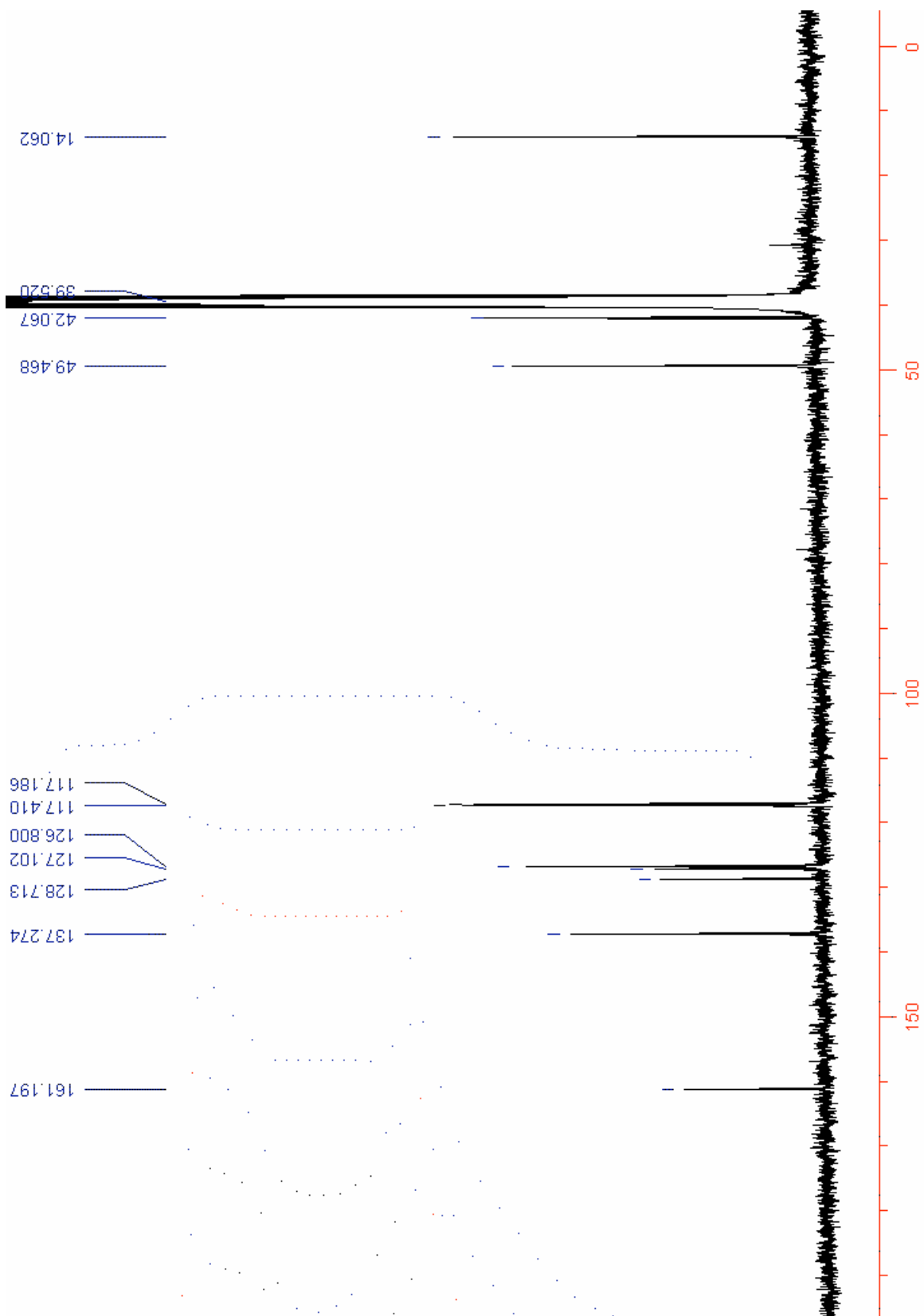
compound 4 (^1H , DMSO)



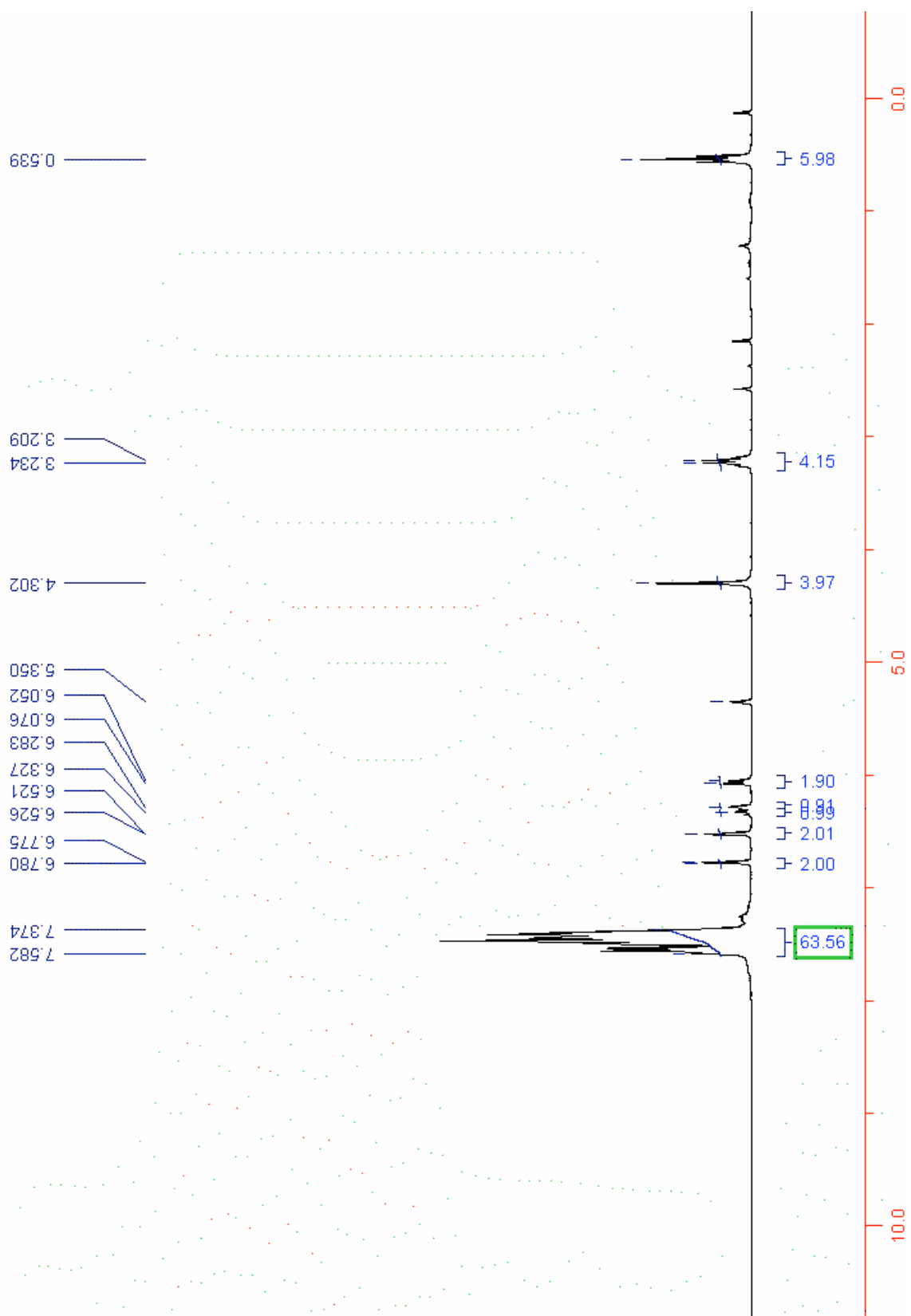
compound 6 (^1H , DMSO)



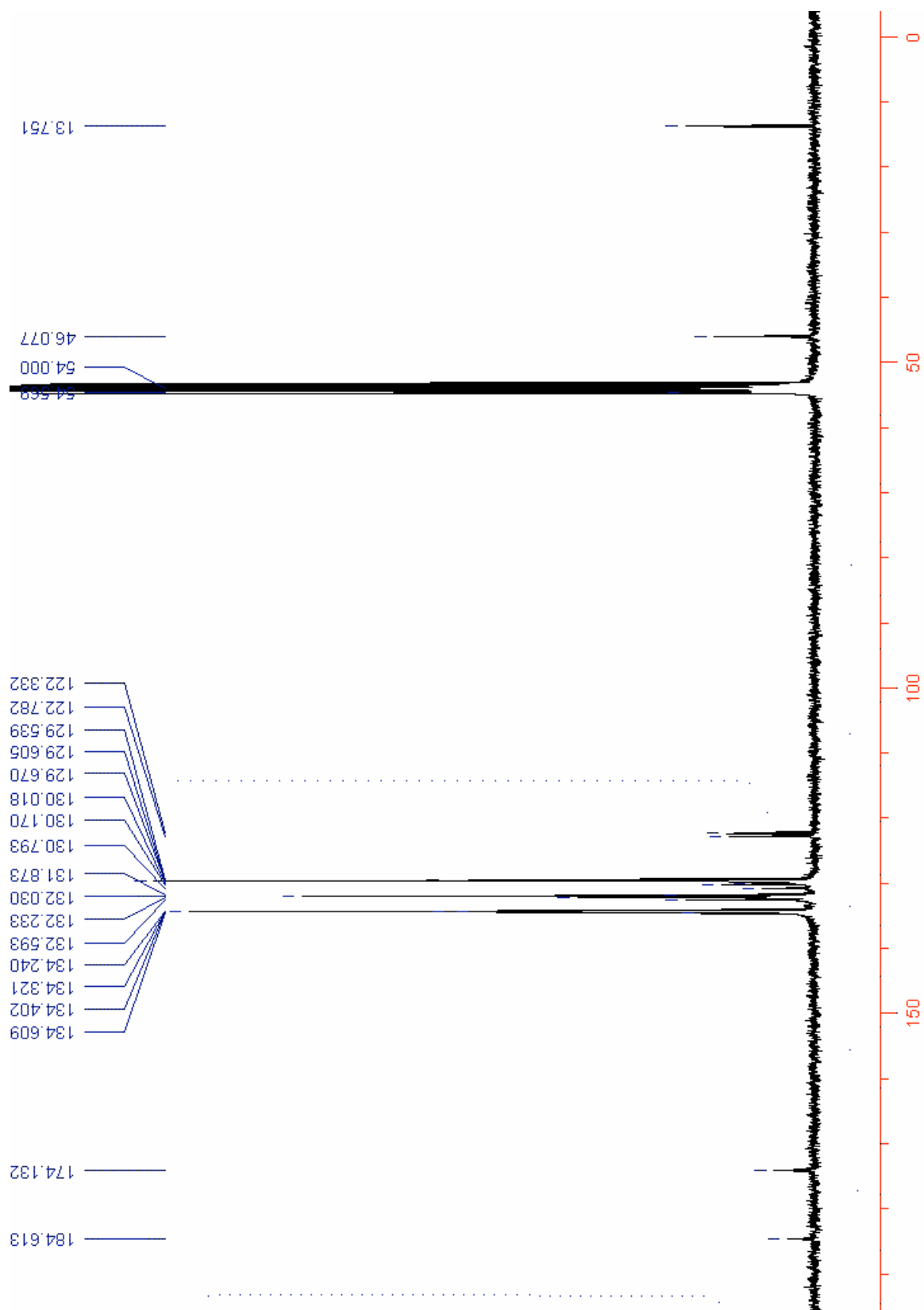
compound **6** (^{13}C , DMSO)



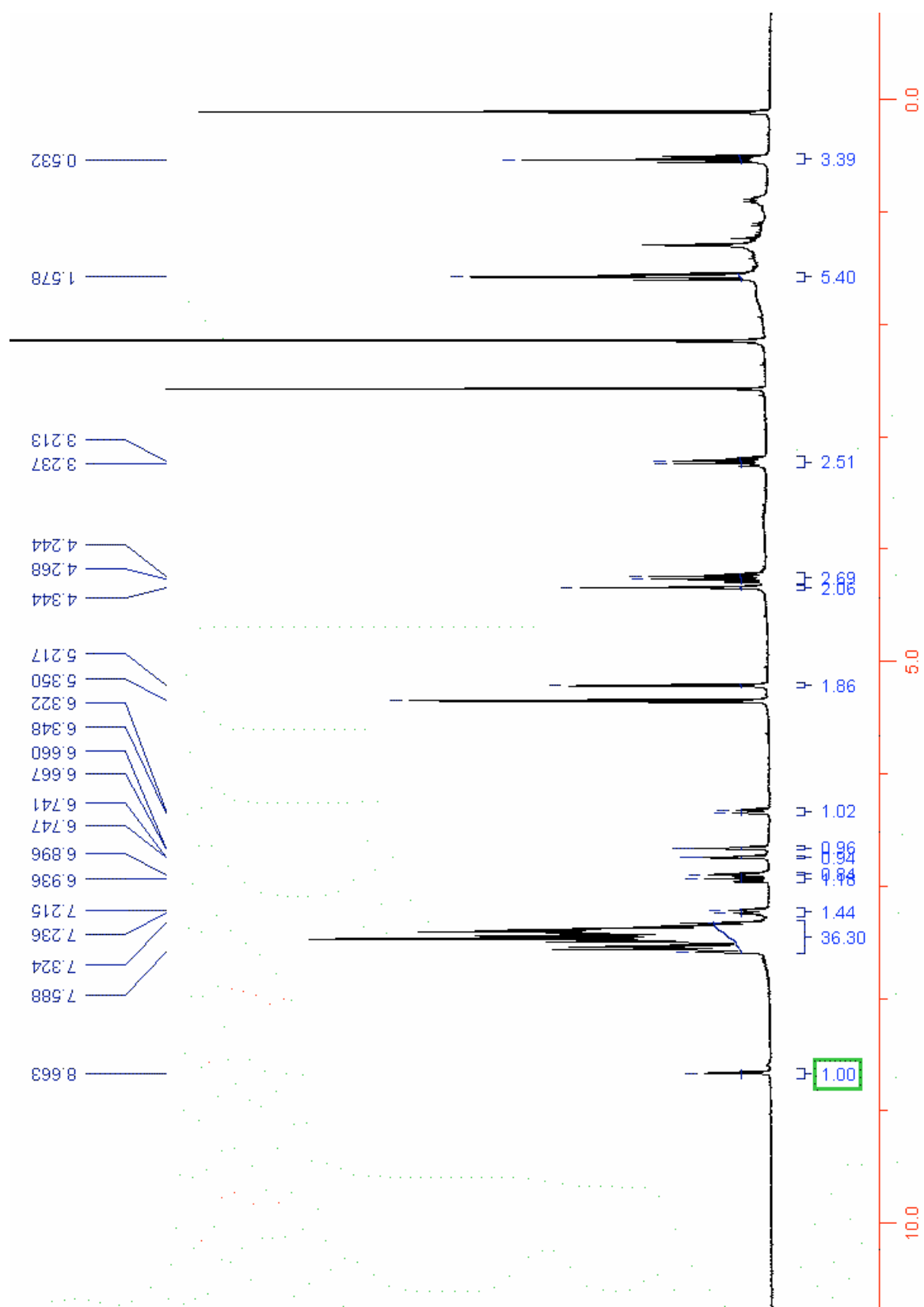
compound 7 (^1H , CD_2Cl_2)



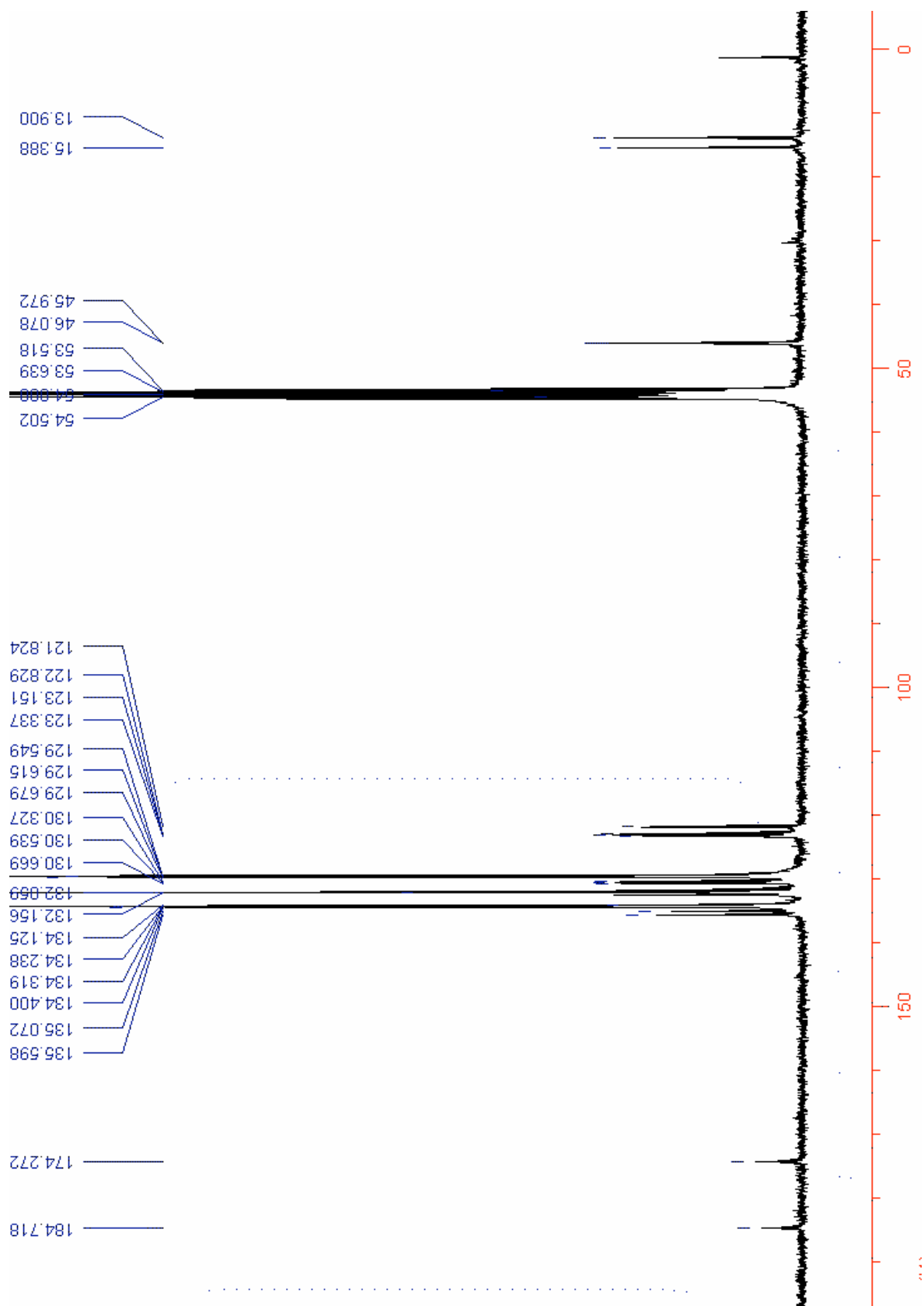
compound 7 (^{13}C , CD_2Cl_2)



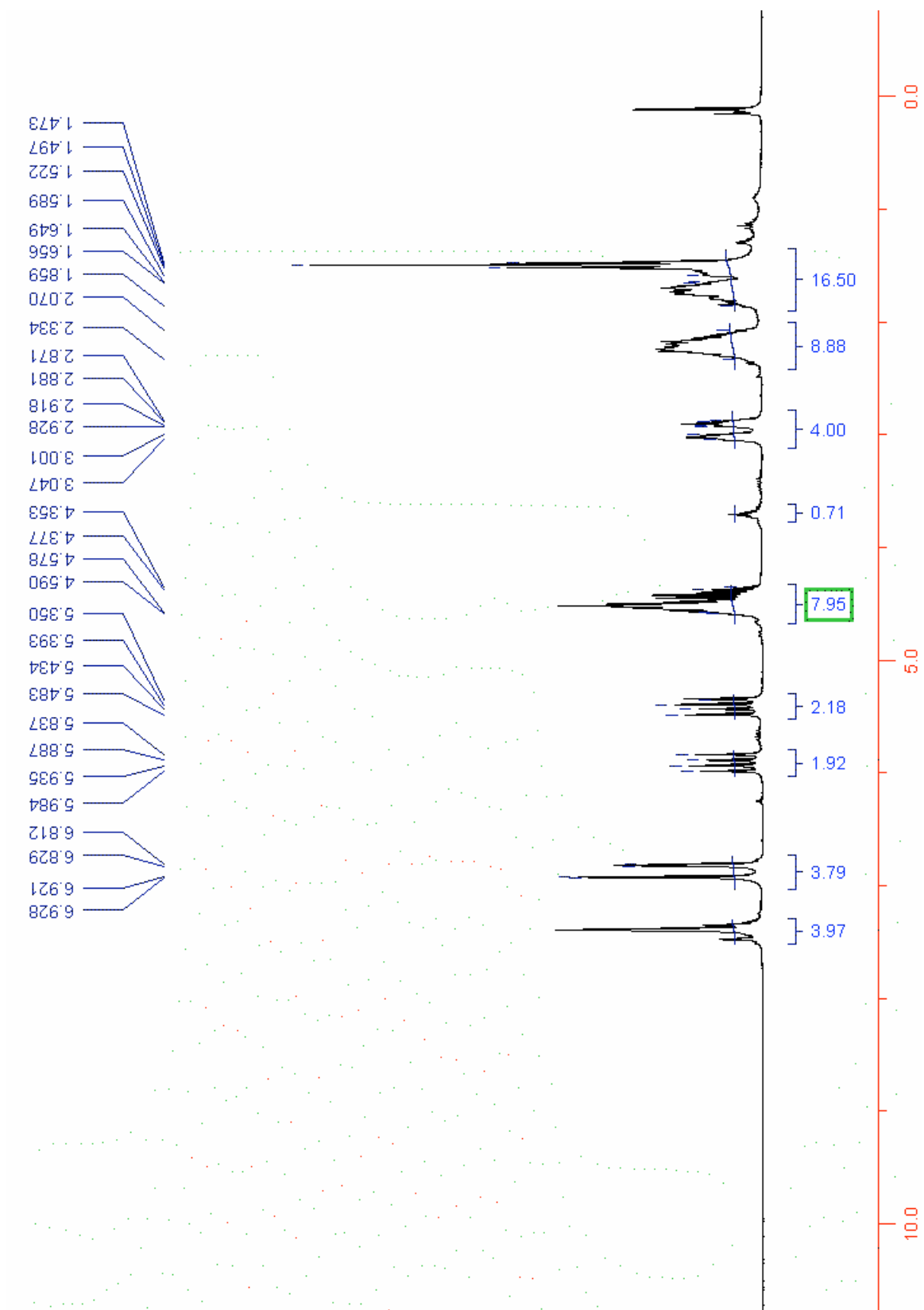
compound **8** (^1H , CD_2Cl_2)



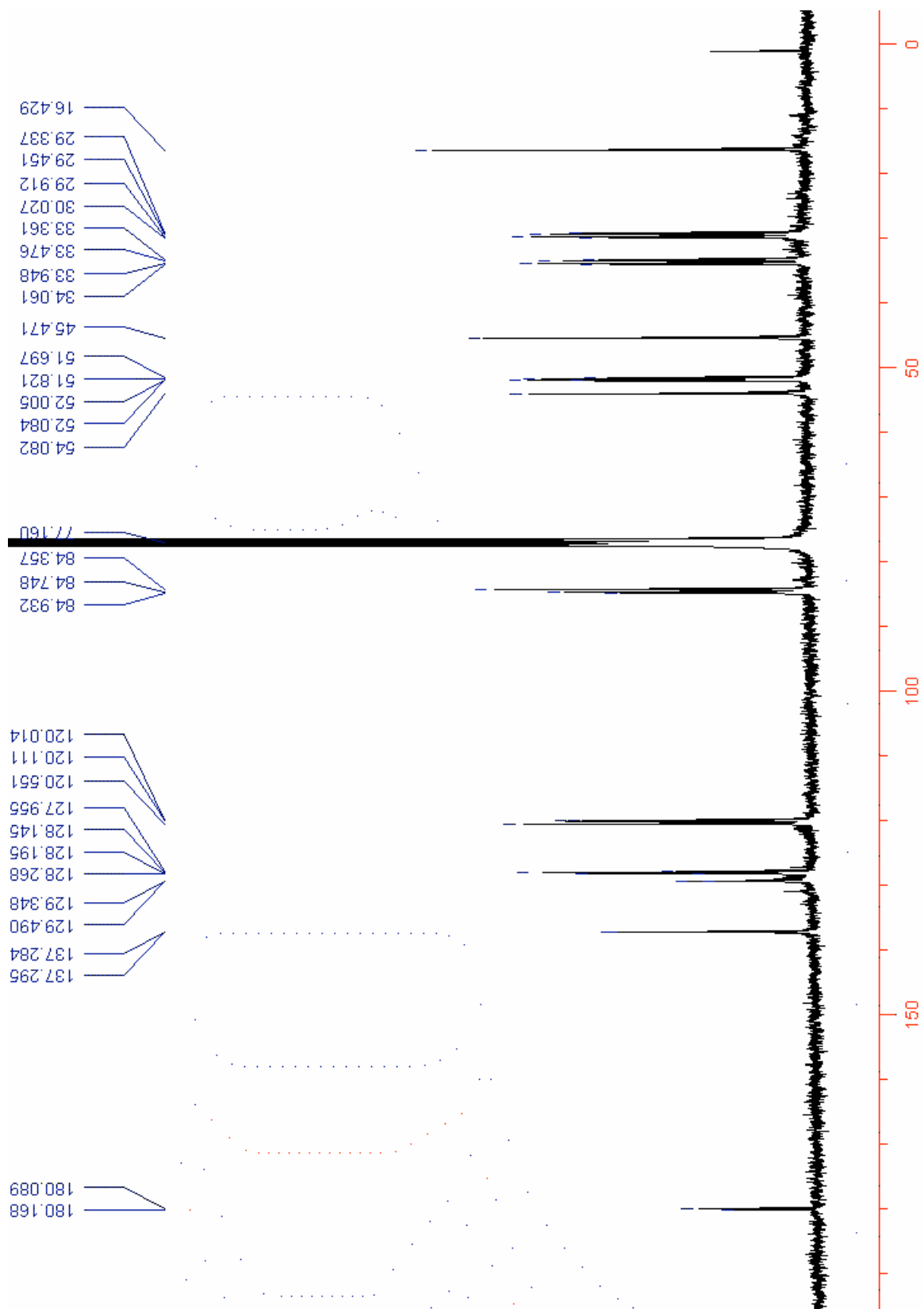
compound **8** (^{13}C , CD_2Cl_2)



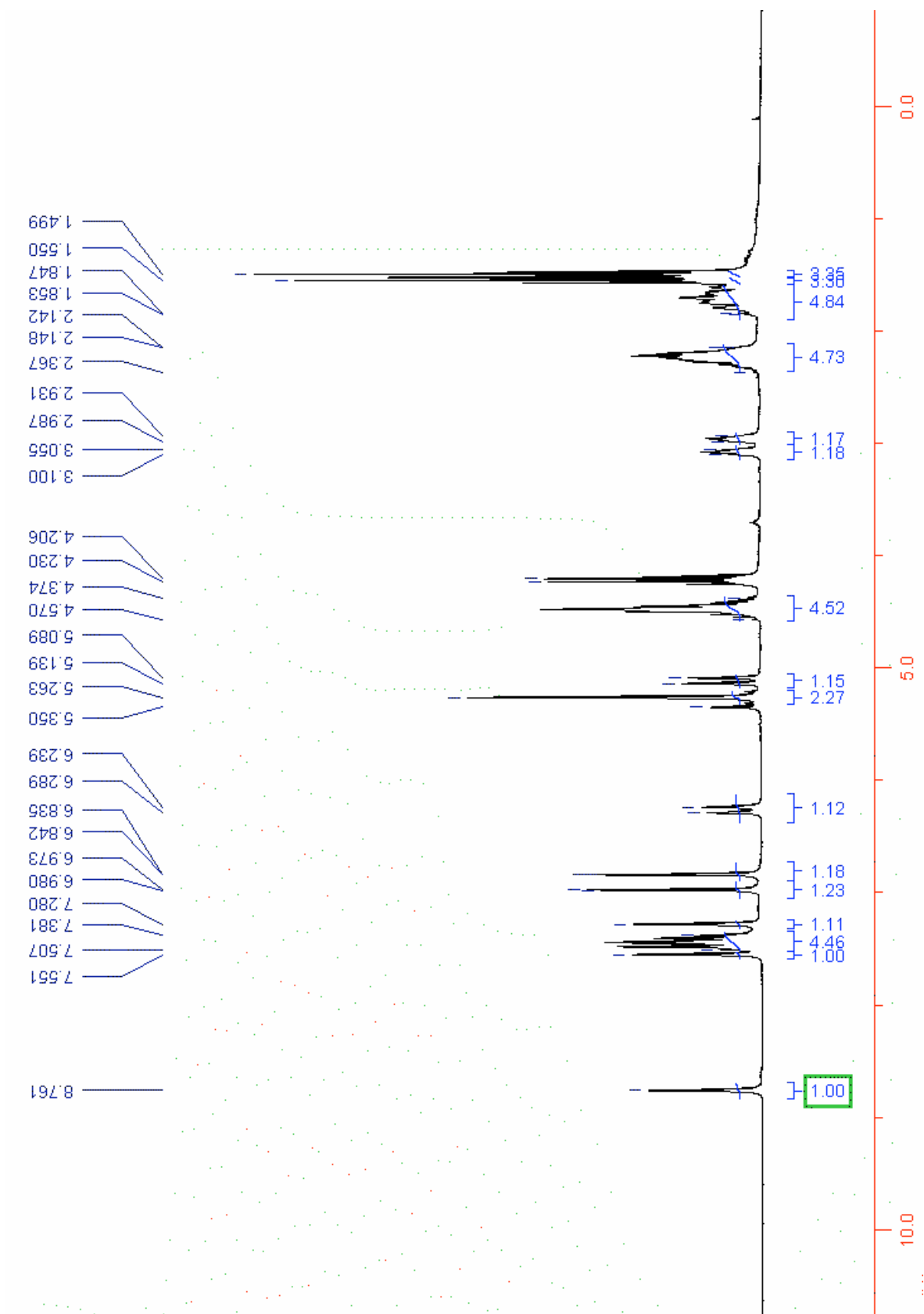
compound **9** (^1H , CD_2Cl_2)



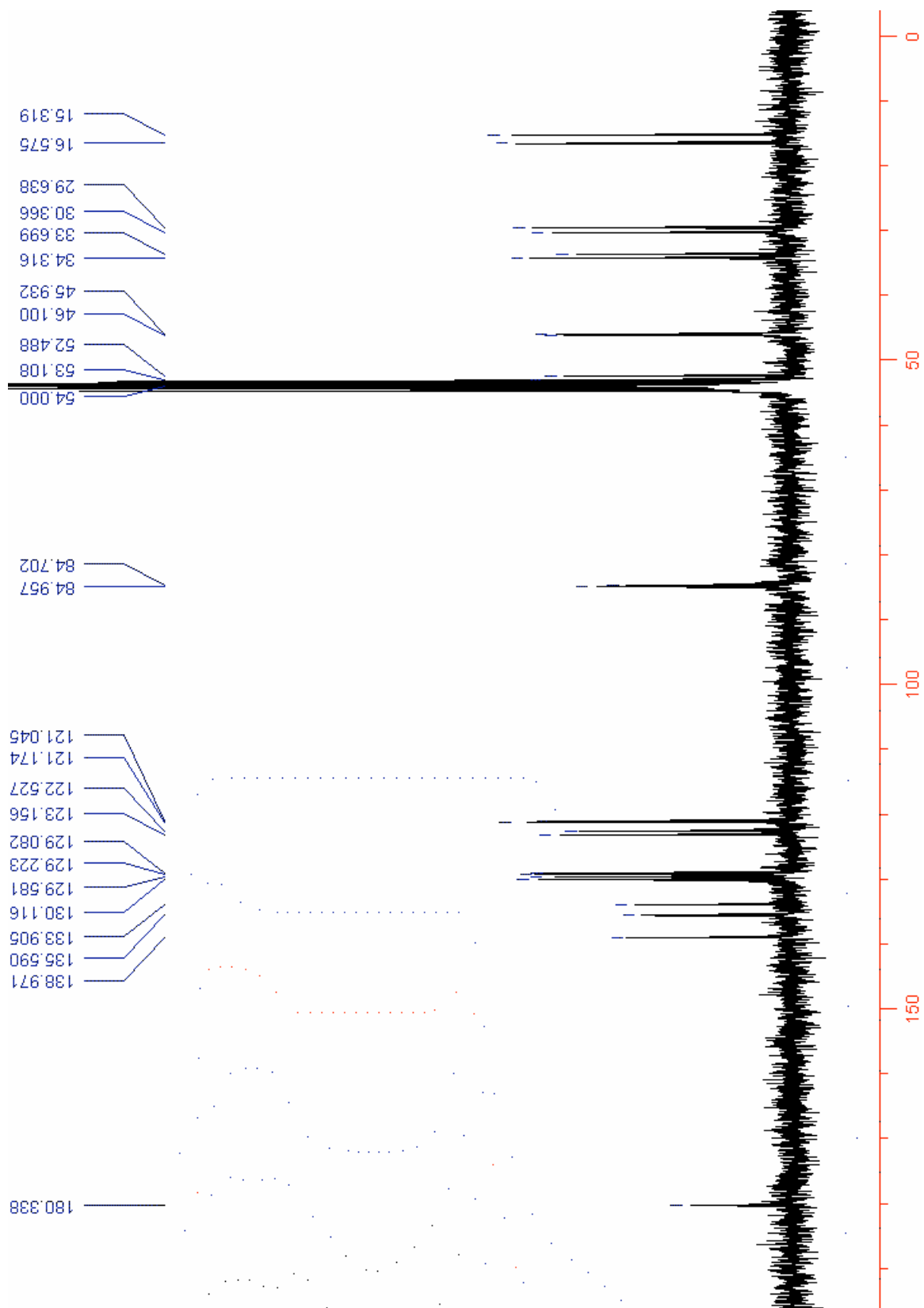
compound **9** (^{13}C , CDCl_3)



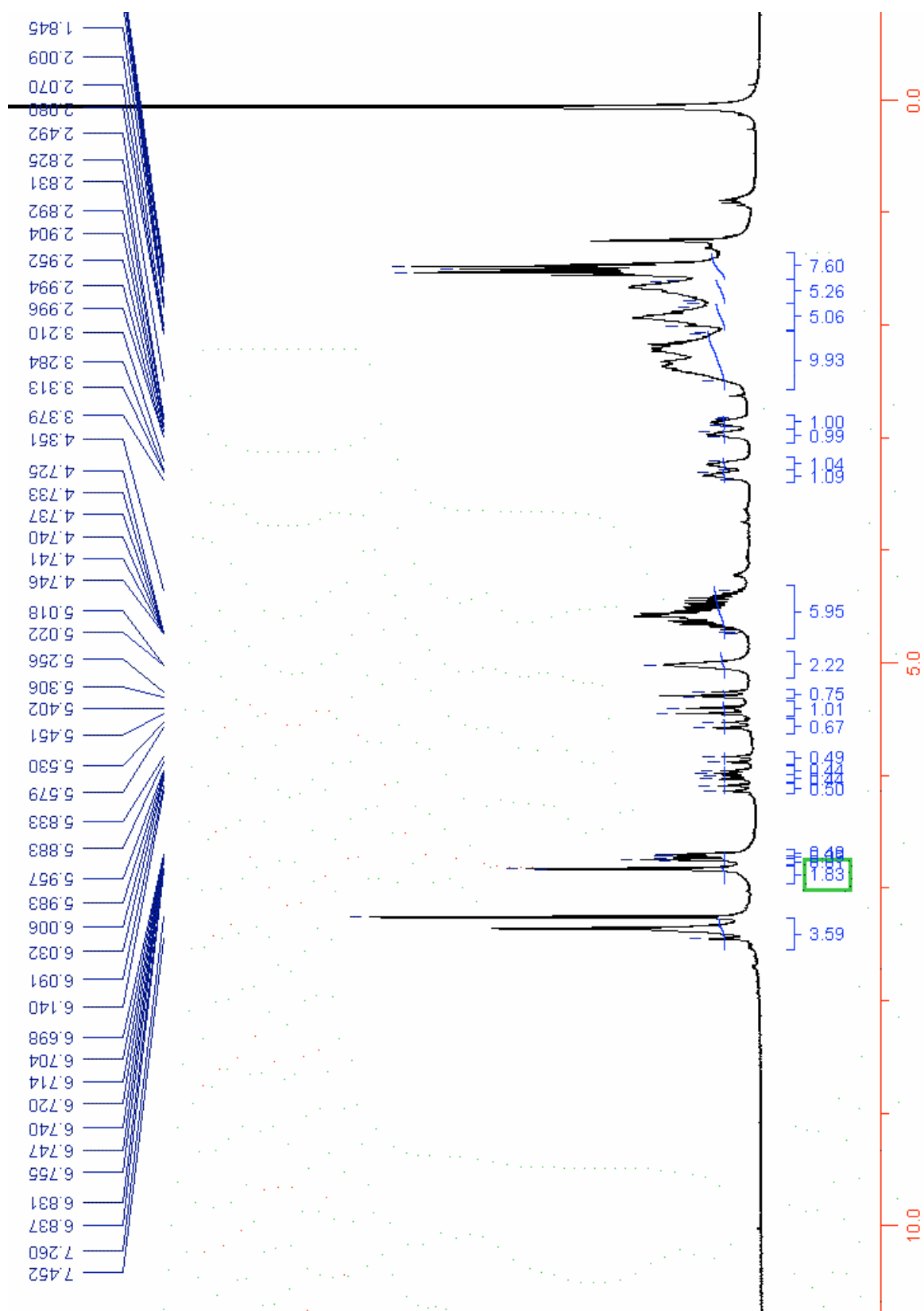
compound **10** (^1H , CD_2Cl_2)



compound **10** (^{13}C , CD_2Cl_2)



compound 11 (^1H , CDCl_3)



compound **11** (^{13}C , CDCl_3)

